

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

#6  
Borchert A  
KJ  
5-7-02

RUSSELL et al

Atty. Ref.: 124-892

National Phase of Int'l Appln. No. PCT/GB00/01249 Group:

(Filed: 31 March 2000)

Examiner:

For: A PHOTONIC CRYSTAL FIBRE AND A METHOD FOR ITS PRODUCTION

\* \* \* \* \*

October 1, 2001

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**PRELIMINARY AMENDMENT**

Please preliminarily amend the above-identified application as follows:

**IN THE CLAIMS**

Please cancel without prejudice claims 21, 28 and 29, and substitute the following amended claims for corresponding claims previously presented. A copy of the amended claims showing current revisions is attached.

*a1*

---

3. (Amended) A photonic crystal fibre, as claimed in claim 1, in which the substantially periodic cladding material has a triangular lattice structure.

---

*a2*

5. (Amended) A photonic crystal fibre, as claimed in claim 1, in which the regions of higher refractive index consist essentially of silica.

6. (Amended) A photonic crystal fibre, as claimed in claim 1, in which the fraction of air in the cladding is at least 15% by volume based on the volume of the cladding.

---